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A.D. 1869, 12*th* APRIL. N° 1121.

Brewing.

LETTERS PATENT to Edward Beanes, of Cordwalles, near Maidenhead, in the County of Berks, for the Invention of "IMPROVEMENTS IN BREWING."

Sealed the 25th September 1869, and dated the 12th April 1869.

PROVISIONAL SPECIFICATION left by the said Edward Beanes at the Office of the Commissioners of Patents, with his Petition, on the 12th April 1869.

I, EDWARD BEANES, of Cordwalles, near Maidenhead, in the County of Berks, do hereby declare the nature of the said Invention for "IMPROVEMENTS IN BREWING," to be as follows:—

This Invention consists in the application and use in brewing of neutral or mono-sulphites of calcium, magnesium, aluminium, and ammonium. These chemical agents (in the proportion of about one pound of the sulphites to each quarter of malt) are applied to the brewing materials, such as malt or sugar, directly or mixed with the water added to them before their entrance into the mash tun, during the

process of mashing or during the process of boiling the wort with the hops, but I prefer to operate with them during the mashing process.

SPECIFICATION in pursuance of the conditions of the Letters Patent, filed by the said Edward Beanes in the Great Seal Patent Office on the 8th October 1869.

TO ALL TO WHOM THESE PRESENTS SHALL COME, I, EDWARD BEANES, of Cordwalles, near Maidenhead, in the County of Berks, send greeting.

WHEREAS Her most Excellent Majesty Queen Victoria, by Her Letters Patent, bearing date the Twelfth day of April, in the year of our Lord One thousand eight hundred and sixty-nine, in the thirty-second year of Her reign, did, for Herself, Her heirs and successors, give and grant unto me, the said Edward Beanes, Her special licence that I, the said Edward Beanes, my executors, administrators, and assigns, or such others as I, the said Edward Beanes, my executors, administrators, and assigns, should at any time agree with, and no others, from time to time and at all times thereafter during the term therein expressed, should and lawfully might make, use, exercise, and vend, within the United Kingdom of Great Britain and Ireland, the Channel Islands, and Isle of Man, an Invention for "IMPROVEMENTS IN BREWING," upon the condition (amongst others) that I, the said Edward Beanes, my executors or administrators, by an instrument in writing under my, or their, or one of their hands and seals, should particularly describe and ascertain the nature of the said Invention, and in what manner the same was to be performed, and cause the same to be filed in the Great Seal Patent Office within six calendar months next and immediately after the date of the said Letters Patent.

NOW KNOW YE, that I, the said Edward Beanes, do hereby declare the nature of my said Invention, and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement in writing, that is to say:—

These improvements in brewing consist in the application and use of neutral or mono-sulphites of calcium, magnesium, aluminium, and ammonium, which chemical agents or materials I apply either directly to the

brewing materials, such as malt or sugar, or they may be mixed with the water added to them either before their entrance into the mash tun, during the process of mashing or during the process of boiling the wort with the hops, but by preference I operate with them during the mashing process.

I would here remark that in the Provisional Specification lodged at the time of my applying for the herein-before in part recited Letters Patent, I stated that the above-named chemical agents were to be applied in the proportion of about one pound of the sulphites to each quarter of malt, but from the results of experiments since made in order to test and perfect my Invention, I have ascertained that the proportions of the mono-sulphites of calcium, magnesium, and aluminium that I would prefer to apply and use are about two pounds weight of such chemical agents to each quarter of malt, and of the mono-sulphite of ammonium about one pound weight to every quarter of malt.

The brewing operations are conducted as usual, and the above-named chemical agents or materials I apply and use in the manner pointed out (with reference to the chemical agents therein proposed to be used) in the Specification filed in pursuance of certain Letters Patent granted to me on the Twentieth day of July One thousand eight hundred and sixty-eight, No. 2274.

Having now described the nature and object of my said Invention for "Improvements in Brewing," together with the manner in which the same is to be or may be performed or carried into practical effect, I would remark in conclusion that I claim as my Invention, the application and use in the process of brewing of neutral or mono-sulphites of calcium, magnesium, aluminium, and ammonium, substantially in the manner herein-before described and referred to, the result being the production of a superior quality of beer.

In witness whereof, I, the said Edward Beanes, have hereunto set my hand and seal, this Twenty-second day of September, in the year of our Lord One thousand eight hundred and sixty-nine.

EDW^{D}. BEANES. (L.S.)

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